

Claims

[c1] A switch assembly comprising:

- a pushbutton having a first opening;
- a transparent cover installed in the first opening;
- a circuit board having a circuit, said circuit board defining a first conductive section and a second conductive section, and said first conductive section being insulated with the second conductive section;
- a conductive elastic part having at least one contact being coupled to said first conductive section,
- a body section being separated from said first conductive section and said second conductive section and contacted by said pushbutton;

when said pushbutton applies a force to the conductive elastic part, said body section is forced to contact said second conductive section so that said first conductive section is conductively coupled with said second conductive section to provide an on state;

when said pushbutton does not apply a force to the conductive elastic part, said body section separates from said second conductive section so that said first conductive section is insulated with said second conductive sec-

tion to provide an off state; and
a LED installed between said transparent cover and said circuit board, said LED being conductively coupled to the circuit of said circuit board so that by the trigger of the on state, the LED becomes light.

[c2] The switch assembly as recited in Claim 1 wherein said circuit board is a PCB.

[c3] The switch assembly as recited in Claim 1 wherein said circuit board has at least one aperture for receipt of said one contact of said conductive elastic part.

[c4] The switch assembly as recited in Claim 1 wherein said conductive elastic part has two contacts coupled to said first conductive section.

[c5] The switch assembly as recited in Claim 1 wherein said conductive elastic part has a second opening, said LED being installed on the circuit board via said second opening.

[c6] The switch assembly as recited in Claim 5 wherein said first opening is at enter of the pushbutton and of a shape of square, diamond, round, ellipse, or trapeziform.

[c7] A charger including a switch assembly, said switch as–

sembly comprising:

a pushbutton having a first opening;

a transparent cover installed in the first opening;

a circuit board having a circuit, said circuit board defining a first conductive section and a second conductive section, and said first conductive section being insulated with the second conductive section;

a conductive elastic part having

at least one contact being coupled to said first conductive section,

a body section being separated from said first conductive section and said second conductive section and contacted by said pushbutton;

a second opening being aligned with said first opening;

when said pushbutton applies a force to the conductive elastic part, said body section is forced to contact said second conductive section so that said first conductive section is conductively coupled with said second conductive section to provide an on state;

when said pushbutton does not apply a force to the conductive elastic part, said body section separates from said second conductive section so that said first conductive section is insulated with said second conductive section to provide an off state; and

a LED installed between said transparent cover and said circuit board, said LED being conductively coupled to the

circuit through said first and second openings so that by the trigger of the on state, the LED becomes light.